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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L5	2	(map$5) with URL with request with frequen$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/04 19:51
L6	46	table same (map$5) with URL with request	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/04 19:51
S2	6	processor with web adj pages with request and (map$5 with URL) and (@ad<"20030702" @prad<"20030702" @rlad<"20030702")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/02 13:55
S6	22	(generat$4 construct$4 build$4 creat$4 provid$4) with (web adj page) and (map$5 with URL) and (monitor$4 with processor) and (@ad<"20030702" @prad<"20030702" @rlad<"20030702")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/02 14:05
S8	15	(generat$4 construct$4 build$4 creat$4 provid$4) with (web adj page) same template with processor and (@ad<"20030702" @prad<"20030702" @rlad<"20030702")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/02 14:21
S27	204	S26 and (request$4 same browser)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/04 17:19
S28	16	S27 and (map$6 with url)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/04 17:19

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1 Ready for prime time: pre-generation of web pages in TIScover
Birgit Pröll, Heinrich Starck, Werner Retschitzegger, Harald Sighart .
November 1999 **Proceedings of the eighth international conference on Information and knowledge management**
Publisher: ACM Press

Full text available: 📄 pdf(974.45 KB)   Additional Information: full citation, abstract, references, citings, index terms

In large data- and access-intensive web sites, efficient and reliable access is hard to achieve. This situation gets even worse for web sites providing precise structured query facilities and requiring topicality of the presented information even in face of a highly dynamic content. The achievement of these partly conflicting goals is strongly influenced by the approach chosen for page generation, ranging from composing a web page upon a user's request to its generation in advance. The offi ...

Keywords: WWW, optimization, page generation, reliability, tourism information system

2 Trustworthy Web sites: Static approximation of dynamically generated Web pages
Yasuhiko Minamide
May 2005 **Proceedings of the 14th international conference on World Wide Web**
Publisher: ACM Press
Full text available: 📄 pdf(177.33 KB)   Additional Information: full citation, abstract, references, index terms

Server-side programming is one of the key technologies that support today's WWW environment. It makes it possible to generate Web pages dynamically according to a user's request and to customize pages for each user. However, the flexibility obtained by server-side programming makes it much harder to guarantee validity and security of dynamically generated pages.To check statically the properties of Web pages generated dynamically by a server-side program, we develop a static program analysis tha ...

Keywords: HTML validation, context-free grammars, cross-site scripting, server-side scripting, static analysis

3 Engineering design: Automatic accessibility evaluation of dynamic web pages generated through XSLT
André Pimenta Freire, Renata Pontin de Mattos Fortes
May 2005 **Proceedings of the 2005 International Cross-Disciplinary Workshop on Web Accessibility (W4A) W4A '05**
Publisher: ACM Press
Full text available: 📄 pdf(99.18 KB)   Additional Information: full citation, abstract, references, index terms

Much effort has been dedicated to develop software aids for authoring and evaluating Web pages using accessibility guidelines and standards. The evaluation of dynamic Web pages is a problem still unsolved in the field of automatic evaluation tools, since the current evaluators are only able to evaluate static Web pages. Stone and Dhiensa have addressed this problem, and proposed a method for evaluating the accessibility of dynamic Web pages using a generalized page which contains all possible ou ...

Keywords: XML, user interface, web accessibility evaluation

4   <u>Web and design: Generating custom notification histories by tracking visual differences between web page visits</u>
Saul Greenberg, Michael Boyle
June 2006 **Proceedings of the 2006 conference on Graphics interface GI '06**
Publisher: Canadian Information Processing Society
Full text available: 📄 <u>pdf(586.37 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

We contribute a method that lets people create a visual history of custom notifications to track personally meaningful changes to web pages. Notifications are assembled as a collage of regions extracted from the fully rendered (bitmap) representation of the web pages. They are triggered when visual changes between successive visits are detected within regions. To use the system, a person specifies a notification by clipping personally interesting regions from the bitmap representation of a web p ...

Keywords: information customization, notifications

5   <u>Versioning and fragmentation: Automatic detection of fragments in dynamically generated web pages</u>
Lakshmish Ramaswamy, Arun Iyengar, Ling Liu, Fred Douglis
May 2004 **Proceedings of the 13th international conference on World Wide Web**
Publisher: ACM Press
Full text available: 📄 <u>pdf(268.12 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Dividing web pages into fragments has been shown to provide significant benefits for both content generation and caching. In order for a web site to use fragment-based content generation, however, good methods are needed for dividing web pages into fragments. Manual fragmentation of web pages is expensive, error prone, and unscalable. This paper proposes a novel scheme to automatically detect and flag fragments that are cost-effective cache units in web sites serving dynamic content. We consider ...

Keywords: L-P fragments, dynamic content caching, fragment detection, fragment-based caching, shared fragments

6   <u>Web and e-business application: Dynamically generating web application fragments from page templates</u>
Uwe Zdun
March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**
Publisher: ACM Press
Full text available: 📄 <u>pdf(900.91 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Web-based applications are typically required to be highly customizable and configurable. New application requirements have to be introduced rapidly, often without stopping the running application process. Moreover, in many cases the same business logic has to be presented to different channels and/or user interfaces. In this paper we present a dynamic page template architecture for decomposing configurable and representational fragments of the application from the business logic. Page templates ...

Keywords: dynamic software architecture, object-Oriented Scripting, web engineering

7 Research sessions: distributed systems: Proxy-based acceleration of dynamically generated content on the world wide web: an approach and implementation

Anindya Datta, Kaushik Dutta, Helen Thomas, Debra VanderMeer, Suresha, Krithi Ramamritham

June 2002 **Proceedings of the 2002 ACM SIGMOD i nternational conference on Management of data SIGMOD '02**

Publisher: ACM Press

Full text available: pdf(1.37 MB)   Additional Information: full citation, abstract, references, citings, index terms

As Internet traffic continues to grow and web sites become increasingly complex, performance and scalability are major issues for web sites. Web sites are increasingly relying on dynamic content generation applications to provide web site visitors with dynamic, interactive, and personalized experiences. However, dynamic content generation comes at a cost --- each request requires computation as well as communication across multiple components.To address these issues, various dynamic content cach ...

Keywords: dynamic content, edge caching, proxy-based caching

8 Proxy-based acceleration of dynamically generated content on the world wide web: An approach and implementation

Anindya Datta, Kaushik Dutta, Helen Thomas, Debra Vandermeer, Krithi Ramamritham

June 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 2

Publisher: ACM Press

Full text available: pdf(927.23 KB)   Additional Information: full citation, abstract, references, index terms

As Internet traffic continues to grow and websites become increasingly complex, performance and scalability are major issues for websites. Websites are increasingly relying on dynamic content generation applications to provide website visitors with dynamic, interactive, and personalized experiences. However, dynamic content generation comes at a cost---each request requires computation as well as communication across multiple components.To address these issues, various dynamic content caching ap ...

Keywords: Edge caching, caching dynamically generated content, fragment caching, implementation, proxy caching, world wide web

9 Data integration and sharing II: Extracting structured data from Web pages

Arvind Arasu, Hector Garcia-Molina, Stanford University

June 2003 **Proceedings of the 2003 ACM SIGMOD i nternational conference on Management of data**

Publisher: ACM Press

Full text available: pdf(587.99 KB)   Additional Information: full citation, abstract, references, citings, index terms

Many web sites contain large sets of pages generated using a common template or layout. For example, Amazon lays out the author, title, comments, etc. in the same way in all its book pages. The values used to generate the pages (e.g., the author, title,...) typically come from a database. In this paper, we study the problem of automatically extracting the database values from such template-generated web pages without any learning examples or other similar human input. We formally define a templa ...

10 Languages & Authoring for the Semnatic Web: Authoring and annotation of web pages in CREAM

Siegfried Handschuh, Steffen Staab

May 2002 **Proceedings of the 11th international conference on World Wide Web**

Publisher: ACM Press

Full text available: 📄 pdf(764.65 KB)   Additional Information: full citation, abstract, references, citings, index terms

Richly interlinked, machine-understandable data constitute the basis for the Semantic Web. We provide a framework, CREAM, that allows for creation of metadata. While the annotation mode of CREAM allows to create metadata for existing web pages, the authoring mode lets authors create metadata --- almost for free --- while putting together the content of a page.As a particularity of our framework, CREAM allows to create *relational metadata*, i.e. metadata that instantiate interrelated defini ...

Keywords: RDF, annotation, metadata, semanticWeb

11 Full Technical Papers: Dynamic web page authoring by example using ontology-based domain knowledge
José A. Macías, Pablo Castells
January 2003 **Proceedings of the 8th international conference on Intelligent user interfaces**
Publisher: ACM Press
Full text available: 📄 pdf(469.78 KB)   Additional Information: full citation, abstract, references, index terms

Authoring dynamic web pages is an inherently difficult task. We present DESK, an interactive authoring tool that allows the customization of dynamic page generation procedures with no a-priori tool-specific skill requirements from authors. Our approach consists of combining Programming By Example (PBE) techniques with an ontology-based representation of knowledge displayed in web pages. DESK acts as a client-side complement of a dynamic web page generation system, PEGASUS, which generates HTML p ...

Keywords: knowledge-based UI design, model-based paradigm, ontology, programming by example

12 Self-maintaining web pages: an overview
M. Schrefl, E. Kapsammer, W. Retschitzegger, B. Pröll
January 2001 **Proceedings of the 12th Australasian database conference ADC '01**
Publisher: IEEE Computer Society
Full text available: 📄 pdf(798.05 KB)   Additional Information: full citation, abstract, references, citings, index terms
📄 Publisher Site

Data-intensive web-based information systems usually employ database systems to store the contents forming the basis for web page construction. Generating web pages on the fly, especially in peak times, can lead to severe performance problems. Thus, pre-generation of web pages has been suggested to be ready for prime time, allowing to reliably deliver several hundred pre-generated pages per second. Maintaining the consistency of these web pages with respect to changes within the database in an e ...

13 Designing for accessibility: Transforming web pages to become standard-compliant through reverse engineering
Benfeng Chen, Vincent Y. Shen
May 2006 **Proceedings of the 2006 international cross-disciplinary workshop on Web accessibility (W4A): Building the mobile web: rediscovering accessibility? W4A**
Publisher: ACM Press
Full text available: 📄 pdf(392.54 KB)   Additional Information: full citation, abstract, references, index terms

Developing Web pages following established standards can make the information more accessible, their rendering more efficient, and their processing by computer applications easier. Unfortunately, more than 95% of the existing Web pages today are not "valid" in that they do not follow some of the recommendations (standards) of the World Wide Web

Consortium (W3C). Fixing any Web page to make it standard-compliant is a major undertaking. There is now an open-source tool called HTML Tidy which will ...

Keywords: HTML, HTML tidy, W3C recommendations, browser, cascade style sheets, rendering engine, web page

14   Links for a better web: Refinement of TF-IDF schemes for web pages using their hyperlinked neighboring pages
Kazunari Sugiyama, Kenji Hatano, Masatoshi Yoshikawa, Shunsuke Uemura
August 2003 **Proceedings of the fourteenth ACM conference on Hypertext and hypermedia**
Publisher: ACM Press

Full text available: pdf(211.25 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

In IR (information retrieval) systems based on the vector space model, the TF-IDF scheme is widely used to characterize documents. However, in the case of documents with hyperlink structures such as Web pages, it is necessary to develop a technique for representing the contents of Web pages more accurately by exploiting the contents of their hyperlinked neighboring pages. In this paper, we first propose several approaches to refining the TF-IDF scheme for a target Web page by using the contents ...

Keywords: TF-IDF scheme, WWW, hyperlink, information retrieval

15   Database session 4: heterogeneous and distributed systems: On the complexity of schema inference from web pages in the presence of nullable data attributes
Guizhen Yang, I. V. Ramakrishnan, Michael Kifer
November 2003 **Proceedings of the twelfth international conference on Information and knowledge management**
Publisher: ACM Press

Full text available: pdf(179.78 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

An increasingly large number of Web pages are machine-generated by filling in templates with data stored in backend databases. These templates can be viewed as the implicit schemas of those Web pages. The ability to infer the implicit schema from a collection of Web pages is important for scalable data extraction, since the inferred schema can be used to automatically identify schema attributes that are "encoded" in Web pages.However, the task of inferring a "good" schema is complicated due to t ...

Keywords: data extraction, data mining, machine learning, schema inference, web mining, world wide web, wrapper induction

16   Papers: A page-transition framework for image-oriented Web programming
Takao Shimomura
March 2004 **ACM SIGSOFT Software Engineering Notes**, Volume 29 Issue 2
Publisher: ACM Press
Full text available: pdf(1.52 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

To develop Web applications, various integrated development environments have been used. In addition, several frameworks for efficiently developing those applications have been proposed. This paper presents the image-oriented page-transition framework that models a Web application as a set of transitions of Web pages, and using visual components, makes it easier to write processes executed when a Web page transfers to another Web page. This page-transition framework has the following novel featu ...

Keywords: Web application, automatic code generation, image-oriented design, page-transition framework

17 Web technologies and applications (WTA): Generating web-based systems from specifications

Tue Becher Jensen, Terkel K. Tolstrup, Michael R. Hansen

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available: pdf(175.67 KB)   Additional Information: full citation, abstract, references

The amount of web-based systems is growing rapidly and the complexity of the developed systems is increasing as well, and in the literature one speaks about a *web crises*.Many web-based systems have a structure where users via a browser can perform operations on a database. We show that major parts of the software of such applications can be generated and verified from specifications of the functional requirements and specifications of the navigation.In particular, we show how to generate ...

Keywords: Web engineering, automatic generation, navigation safeness, specification, type safeness

18 Automated techniques for managing collections: Managing distributed collections: evaluating web page changes, movement, and replacement

Zubin Dalal, Suvendu Dash, Pratik Dave, Luis Francisco-Revilla, Richard Furuta, Unmil Karadkar, Frank Shipman

June 2004 **Proceedings of the 4th ACM/IEEE-CS joint conference on Digital libraries**

Publisher: ACM Press

Full text available: pdf(329.43 KB)   Additional Information: full citation, abstract, references, citings, index terms

Distributed collections of Web materials are common. Bookmark lists, paths, and catalogs such as Yahoo! Directories require human maintenance to keep up to date with changes to the underlying documents. The Walden's Paths Path Manager is a tool to support the maintenance of distributed collections. Earlier efforts focused on recognizing the type and degree of change within Web pages and identifying pages no longer accessible. We now extend this work with algorithms for evaluating drastic changes ...

Keywords: change detection, collection management, document location

19 Web services and performance evaluation: Collecting hidden weeb pages for data extraction

Juliano Palmieri Lage, Altigran S. da Silva, Paulo B. Golgher, Alberto H. F. Laender

November 2002 **Proceedings of the 4th international workshop on Web information and data management**

Publisher: ACM Press

Full text available: pdf(258.33 KB)   Additional Information: full citation, abstract, references, citings, index terms

As the Web grows, more and more data has become available under dynamic forms of publication, such as a legacy database accessed by an HTML form (the so called Hidden Web). In situations such as this, integration of this data relies more and more on the fast generation of page fetching agents. As a result, there is an increasing need for tools that can help the user to generate such agents. In this paper, we describe an approach to automatically generating agents to collect hidden Web pages that ...

Keywords: collecting agents, hidden web, navigation patterns

20 Towards second and third generation web-based multimedia

Jacco van Ossenbruggen, Joost Geurts, Frank Cornelissen, Lynda Hardman, Lloyd Rutledge

April 2001 **Proceedings of the 10th international conference on World Wide Web**
Publisher: ACM Press
Full text available: 🔲 pdf(563.48 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Keywords: SMIL, XML, XSLT, multimedia, transformations

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1 User hints for map labelling   ◼
Hugo A. D. do Nascimento, Peter Eades
February 2003 **Proceedings of the twenty-sixth Australasian conference on Computer science: research and practice in information technology ACSC '03**
Publisher: Australian Computer Society, Inc.

Full text available: 📄 pdf(277.82 KB)   Additional Information: full citation, abstract, references, citings, index terms

The *Map Labelling Problem* appears in several applications, mainly in Cartography. Although much research on this problem has been done, it is interesting to note that map-labelling processes in commercial fields are very often executed manually or with little support of automatic tools. In general, practical map-labelling problems involve human subjective domain knowledge about label placement that is not entirely covered by the existing scientific approaches. In the present paper, we des ...

Keywords: combinatorial optimisation, map labelling, user hints

2 How valuable is external link evidence when searching enterprise Webs?   ◼
David Hawking, Francis Crimmins, Nick Craswell, Trystan Upstill
January 2004 **Proceedings of the fifteenth Australasian database conference - Volume 27 ADC '04**
Publisher: Australian Computer Society, Inc.
Full text available: 📄 pdf(204.35 KB)   Additional Information: full citation, abstract, references, citings

Link information, especially anchor text, is known to be very useful for effective ranking of web pages, particularly in response to navigational queries. We investigated whether enterprise webs contain sufficient internal link information to adequately answer queries derived from the enterprise's site map or, alternatively, whether adding link evidence from the external Web can boost search effectiveness. Using 1266 navigational queries derived from Stanford University's A-Z site index, we foun ...

Keywords: enterprise search, hyperlink methods, search quality evaluation

3 Enabling dynamic content caching for database-driven web sites   ◼
K. Selçuk Candan, Wen-Syan Li, Qiong Luo, Wang-Pin Hsiung, Divyakant Agrawal
May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data SIGMOD '01**, Volume 30 Issue 2
Publisher: ACM Press

Full text available: 📄 pdf(319.67 KB)   Additional Information: full citation, abstract, references, citings, index terms

Web performance is a key differentiation among content providers. Snafus and slowdowns at major web sites demonstrate the difficulty that companies face trying to scale to a large amount of web traffic. One solution to this problem is to store web content at server-side and edge-caches for fast delivery to the end users. However, for many e-commerce sites, web pages are created dynamically based on the current state of business processes, represented in application servers and *databases*
Keywords: JDBC, application server, database driven web site, dynamic content caching, invalidation, web acceleration

4 Server performance and scalability: Challenges and practices in deploying web acceleration solutions for distributed enterprise systems
Wen-Syan Li, Wang-Pin Hsiung, Oliver Po, Koji Hino, Kasim Selcuk Candan, Divyakant Agrawal
May 2004 **Proceedings of the 13th international conference on World Wide Web**
Publisher: ACM Press
Full text available: pdf(6.61 MB)   Additional Information: full citation, abstract, references, index terms

For most Web-based applications, contents are created dynamically based on the current state of a business, such as product prices and inventory, stored in database systems. These applications demand personalized content and track user behavior while maintaining application integrity. Many of such practices are not compatible with Web acceleration solutions. Consequently, although many web acceleration solutions have shown promising performance improvement and scalability, architecting and engin ...

Keywords: application server, dynamic content, edge server, fragment, j2ee, reliability, scalability, web acceleration

5 Integrating biopathway databases for large-scale modeling and simulation
Masao Nagasaki, Atsushi Doi, Hiroshi Matsuno, Satoru Miyano
January 2004 **Proceedings of the second conference on Asia-Pacific bioinformatics - Volume 29 APBC '04**
Publisher: Australian Computer Society, Inc.
Full text available: pdf(692.88 KB)   Additional Information: full citation, abstract, references

Biopathway databases have been developed, such as KEGG and EcoCyc, that compile interaction structures of biopathways together with biological annotations. However, these biopathways are not directly editable and simulatable. Thus, we have made an application, the Biopathway Executer (BPE), that reconstructs these two major biopathway databases to XML formats of modeling and simulation platforms. BPE is developed with JAVA and has a database of executable biopathways that integrates some parts o ...

Keywords: Genomic Object Net, Petrinet, biopathways, database, pathway modeling, simulation

6 Parallel and distributed systems and networking: HTTP redirection for replica catalogue lookups in data grids
Heinz Stockinger, Andrew Hanushevsky
March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**
Publisher: ACM Press
Full text available: pdf(837.72 KB)   Additional Information: full citation, abstract, references, index terms

Data distribution and replication in distributed systems require special purpose middleware tools for accessing replicated data. Data Grids, special forms of systems distributed over wide-area networks, need to handle data management issues like distribution and replication of large amounts of data in the Tera- and Petabyte scale. Replica catalogues are used for cataloguing and locating replicated files in distributed sites

all around the globe. We present a novel and administratively scalable a ...

Keywords: HTTP, distributed computing, file replication, grid, replica catalogue

7 Combinators for bi-directional tree transformations: a linguistic approach to the view update problem

J. Nathan Foster, Michael B. Greenwald, Jonathan T. Moore, Benjamin C. Pierce, Alan Schmitt
January 2005 **ACM SIGPLAN Notices , Proceedings of the 32nd ACM SIGPLAN-SIGACT symposium on Principles of programming languages POPL '05**, Volume 40 Issue 1
Publisher: ACM Press

Full text available: pdf(278.24 KB)   Additional Information: full citation, abstract, references, citings, index terms

We propose a novel approach to the well-known *view update problem* for the case of tree-structured data: a domain-specific programming language in which all expressions denote bi-directional transformations on trees. In one direction, these transformations---dubbed *lenses*---map a "concrete" tree into a simplified "abstract view"; in the other, they map a modified abstract view, together with the original concrete tree, to a correspondingly modified concrete tree. Our design emphasiz ...

Keywords: XML, bi-directional programming, harmony, lenses, view update problem

8 Geospatial mapping and navigation of the web

Kevin S. McCurley
April 2001 **Proceedings of the 10th international conference on World Wide Web**
Publisher: ACM Press
Full text available: pdf(1.06 MB)   Additional Information: full citation, references, citings, index terms

Keywords: browsers, geographic information systems, geospatial information retrieval, navigation

9 Continuations from generalized stack inspection

Greg Pettyjohn, John Clements, Joe Marshall, Shriram Krishnamurthi, Matthias Felleisen
September 2005 **ACM SIGPLAN Notices , Proceedings of the tenth ACM SIGPLAN international conference on Functional programming ICFP '05**, Volume 40 Issue 9
Publisher: ACM Press
Full text available: pdf(213.07 KB)   Additional Information: full citation, abstract, references, index terms

Implementing first-class continuations can pose a challenge if the target machine makes no provisions for accessing and re-installing the run-time stack. In this paper, we present a novel translation that overcomes this problem. In the first half of the paper, we introduce a theoretical model that shows how to eliminate the capture and the use of first-class continuations in the presence of a generalized stack inspection mechanism. The second half of the paper explains how to translate this mode ...

Keywords: A-normal form, continuation-passing style, continuations, defunctionalization, scheme, stack inspection, web programming

10 A metro map metaphor for guided tours on the Web: the Webvise guided tour system

Elmer S. Sandvad, Kaj Grønbæk, Lennert Sloth, Jørgen Lindskov Knudsen
April 2001 **Proceedings of the 10th international conference on World Wide Web**
Publisher: ACM Press

Full text available: pdf(873.05 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Keywords: guided tours, hypermedia, metro map metaphor, navigation, paths, trails

11   <u>MAPA: a system for inducing and visualizing hierarchy in Websites</u>
David Durand, Paul Kahn
May 1998 **Proceedings of the ninth ACM conference on Hypertext and hypermedia : links, objects, time and space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems**
Publisher: ACM Press
Full text available: pdf(1.52 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

12   <u>The NASA Digital Earth Testbed</u>
Jeff de La Beaujardière, Horace Mitchell, Robert Raskin, Ananth Rao
November 2000 **Proceedings of the 8th ACM international symposium on Advances in geographic information systems**
Publisher: ACM Press
Full text available: pdf(767.19 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>index terms</u>

The goal of Digital Earth (www.digitalearth.gov) is to create a virtual representation of our planet that enables a person to explore and interact with the vast amounts of natural and cultural information gathered about the Earth. The challenge is enormous, and a critical first step is interoperability among the servers, viewers, catalogs and middleware services in such a distributed computing network.

As part of its contribution to the public/private/academic Digital Earth (DE) partn ...

13   <u>Information retrieval 1: Categorizing web search results into meaningful and stable categories using fast-feature techniques</u>
Bill Kules, Jack Kustanowitz, Ben Shneiderman
June 2006 **Proceedings of the 6th ACM/IEEE-CS joint conference on Digital libraries JCDL '06**
Publisher: ACM Press
Full text available: pdf(460.86 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

When search results against digital libraries and web resources have limited metadata, augmenting them with meaningful and stable category information can enable better overviews and support user exploration. This paper proposes six fast-feature techniques that use only features available in the search result list, such as title, snippet, and URL, to categorize results into meaningful categories. They use credible knowledge resources, including a US government organizational hierarchy, a themati ...

Keywords: browsing, categorization, classification, metadata, open directory, taxonomies

14   <u>The Purdue University network-computing hubs: running unmodified simulation tools via the WWW</u>
Nirav H. Kapadia, José A. B. Fortes, Mark S. Lundstrom
January 2000 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**,
Volume 10 Issue 1
Publisher: ACM Press
Full text available: pdf(110.49 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

This paper describes the Web interface management infrastructure of a functioning

network-computing system (PUNCH) that allows users to run unmodified simulation packages at geographically dispersed sites. The system currently contains more than fifty university and commercial simulation tools, and has been used to carry out more than two hundred thousand simulations via the World Wide Web. Dynamically-constructed virtual URLs allow the Web interface management infrastructure to support the ...

Keywords: Internet computing, network-computing, web-based simulation

15 Interaction: Automatic derivation of electronic maps from X3D/VRML worlds

Lucio Ieronutti, Roberto Ranon, Luca Chittaro

April 2004 **Proceedings of the ninth international conference on 3D Web technology**

Publisher: ACM Press

Full text available: pdf(837.68 KB)   Additional Information: full citation, abstract, references, citings, index terms

Maps of physical environments and geographical areas are pervasively exploited in many human activities. Electronic maps of virtual worlds have been studied and proven to be useful as navigation aids to help users in finding their way through the 3D world. The contribution of this paper is twofold. In the first part, we propose an automatic method for the derivation of electronic maps from Web3D worlds which is based on standard X3D/VRML nodes, and can thus be run by any X3D/VRML browser. In the ...

Keywords: electronic maps, navigation aids

16 At the forge: openacs packages

Reuven M. Lerner

November 2002 **Linux Journal**, Volume 2002 Issue 103

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(16.35 KB)   Additional Information: full citation, index terms

17 Visualisation I: The 3D visualization of brain anatomy from diffusion-weighted magnetic resonance imaging data

Burkhard C. Wünsche, Richard Lobb

June 2004 **Proceedings of the 2nd international conference on Computer graphics and interactive techniques in Australasia and South East Asia GRAPHITE '04**

Publisher: ACM Press

Full text available: pdf(660.21 KB)   Additional Information: full citation, abstract, references, index terms

A common problem in biomedical sciences is the in vivo identification and analysis of anatomical structures. This paper introduces several novel techniques to identify and visualize nerve fiber tracts and different tissue types using diffusion-weighted magnetic resonance imaging data. Barycentric color maps allow an integrated view of different types of diffusion anisotropy. Ellipsoid-based textures and Anisotropy Modulated Line Integral Convolution create images segmented by tissue type and inc ...

Keywords: biomedical visualization, brain anatomy, diffusion tensor imaging, nerve fiber tracking, tensor field visualization

18 Visual web surfing with Hy±

Masum Z. Hasan, Alberto O. Mendelzon, Dimitra Vista

November 1995 **Proceedings of the 1995 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: Additional Information: full citation, abstract, references, citings, index

pdf(423.02 KB)   terms

In this paper we describe how we are using the Hy⁺ visualization system to visualize the portion of the World Wide Web explored during a browsing session. As the user browses, the Web browser communicates the URL and title of each document fetched as well as all the anchors contained in the document. Hy⁺ displays graphically the history of the navigation and multiple views of the structure of that portion of the Web. Queries of the visual query language GraphLog can be issu ...

19 IGWeL: Interactive and geographical web site locator

Namsook Shin, Thomas J. Cheatham, Nancy J. Wahl

April 1998 **Proceedings of the 36th annual Southeast regional conference**

Publisher: ACM Press

Full text available: pdf(4.14 MB)   Additional Information: full citation, references, index terms

20 At the forge: Google maps

Reuven M. Lerner

June 2006 **Linux Journal,** Volume 2006 Issue 146

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(15.34 KB)   Additional Information: full citation, abstract

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1 Server performance and scalability: Challenges and practices in deploying web acceleration solutions for distributed enterprise systems

Wen-Syan Li, Wang-Pin Hsiung, Oliver Po, Koji Hino, Kasim Selcuk Candan, Divyakant Agrawal
May 2004 **Proceedings of the 13th international conference on World Wide Web**
Publisher: ACM Press
Full text available: 📄 pdf(6.61 MB)   Additional Information: full citation, abstract, references, index terms

For most Web-based applications, contents are created dynamically based on the current state of a business, such as product prices and inventory, stored in database systems. These applications demand personalized content and track user behavior while maintaining application integrity. Many of such practices are not compatible with Web acceleration solutions. Consequently, although many web acceleration solutions have shown promising performance improvement and scalability, architecting and engin ...

Keywords: application server, dynamic content, edge server, fragment, j2ee, reliability, scalability, web acceleration

2 Predicting the QoS of an electronic commerce server: those mean percentiles

Diwakar Krishnamurthy, Jerome Rolia
December 1998 **ACM SIGMETRICS Performance Evaluation Review**, Volume 26 Issue 3
Publisher: ACM Press
Full text available: 📄 pdf(818.91 KB)   Additional Information: full citation, abstract, index terms

This paper presents a case study on Quality of Service (QoS) measures and Service Level Agreements (SLA) for an electronic commerce server. Electronic commerce systems typically rely on a combination of an HTTP server and a database server that may be integrated with other enterprise information resources. Some interactions with these systems cause requests for static HTML pages. Others cause significant amounts of database processing. Response time percentiles are well-accepted measures of QoS ...

3 Measuring and characterizing end-to-end Internet service performance

Ludmila Cherkasova, Yun Fu, Wenting Tang, Amin Vahdat
November 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 4
Publisher: ACM Press
Full text available: 📄 pdf(1.46 MB)   Additional Information: full citation, abstract, references, index terms

Fundamental to the design of reliable, high-performance network services is an understanding of the performance characteristics of the service as perceived by the client population as a whole. Understanding and measuring such end-to-end service performance is a challenging task. Current techniques include periodic sampling of service

characteristics from strategic locations in the network and instrumenting Web pages with code that reports client-perceived latency back to a performance server. Li ...

Keywords: End-to-end service performance, QoS, network packet traces, passive monitoring, reconstruction of web page composition, web site performance

4 World Wide Web: Predicting web actions from HTML content

Brian D. Davison

June 2002 **Proceedings of the thirteenth ACM conference on Hypertext and hypermedia**

Publisher: ACM Press

Full text available: pdf(243.13 KB)   Additional Information: full citation, abstract, references, index terms

Most proposed Web prefetching techniques make predictions based on the historical references to requested objects. In contrast, this paper examines the accuracy of predicting a user's next action based on analysis of the content of the pages requested recently by the user. Predictions are made using the similarity of a model of the user's interest to the text in and around the hypertext anchors of recently requested Web pages. This approa22ch can make predictions of actions that have never been ...

Keywords: WWW, information retrieval, prediction, prefetching, similarity, textual, user modeling

5 WebExpress: a client/intercept based system for optimizing Web browsing in a wireless environment

Barron C. Housel, George Samaras, David B. Lindquist

December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: pdf(338.35 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes an application model and software technology that makes it possible to run World Wide Web applications in wide area wireless networks. Web technology in conjunction with today's mobile devices (e.g., laptops, notebooks, personal digital assistants) and the emerging wireless technologies (e.g., digital cellular, packet radio, CDPD) offer the potential for unprecedented access to data and applications by mobile workers. Yet, the limited bandwidth, high latency, high cost, ...

6 The architecture of robust publishing systems

Marc Waldman, Aviel D. Rubin, Lorrie Faith Cranor

November 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 2

Publisher: ACM Press

Full text available: pdf(680.21 KB)   Additional Information: full citation, abstract, references, index terms

The Internet in its present form does not protect content from censorship. It is straightforward to trace any document back to a specific Web server, and usually directly to an individual. As we discuss below, there are valid reasons for publishing a document in a censorship-resistant manner. Unfortunately, few tools exist that facilitate this form of publishing. We describe the architecture of robust systems for publishing content on the Web. The discussion is in the context of Publius, as that ...

Keywords: Censorship resistance, Web publishing

7 WebExpress: a system for optimizing Web browsing in a wireless environment

Barron C. Housel, David B. Lindquist

November 1996 **Proceedings of the 2nd annual international conference on Mobile computing and networking**

Publisher: ACM Press

Full text available: pdf(995.95 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

8 Performance analysis of internet based software retrieval systems using Petri Nets

José Merseguer, Javier Campos, Eduardo Mena

July 2001 **Proceedings of the 4th ACM international workshop on Modeling, analysis and simulation of wireless and mobile systems**

Publisher: ACM Press

Full text available: pdf(886.62 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Nowadays, there exist web sites that allow users to retrieve and install software in an easy way. The performance of these sites may be poor if they are used in wireless networks; the reason is the inadequate use of the net resources they need. If this kind of systems are designed using mobile agent technology the previous problem might be avoided. In this paper, we present a comparison between the performance of a software retrieval system especially designed to be used in wireless networks ...

Keywords: UML, internet, mobile agent technology, software performance engineering, stochastic Petri nets, wireless networks

9 Bazaars, services, and systems: Experimental platform for mobile information systems

Rudi Belotti, Corsin Decurtins, Moira C. Norrie, Beat Signer, Ljiljana Vukelja

August 2005 **Proceedings of the 11th annual international conference on Mobile computing and networking MobiCom '05**

Publisher: ACM Press

Full text available: pdf(987.54 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Interaction design is a major issue for mobile information systems in terms of not only the choice of input-output channels and presentation of information, but also the application of context-awareness. To support experimentation with these factors, we have developed a platform that supports the rapid prototyping of multi-channel, multi-modal, context-aware applications. The paper presents the main components of the platform and describes how it was used to develop a tourist information system ...

Keywords: interactive paper, mobile information system, rapid prototyping, tourist guide, voice interface, web publishing

10 Information gathering in the World-Wide Web: the W3QL query language and the W3QS system

David Konopnicki, Oded Shmueli

December 1998 **ACM Transactions on Database Systems (TODS)**, Volume 23 Issue 4

Publisher: ACM Press

Full text available: pdf(1.36 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

The World Wide Web (WWW) is a fast growing global information resource. It contains an enormous amount of information and provides access to a variety of services. Since there is no central control and very few standards of information organization or service offering, searching for information and services is a widely recognized problem. To some degree this problem is solved by "search services," also known as "indexers," such as Lycos, AltaVista, Yahoo, and others. ...

Keywords: CGI, FORMS, HTML, HTTP, PERL, World-Wide Web, query language, query system

11 Annotation-based transcoding for nonvisual web access

Chieko Asakawa, Hironobu Takagi

November 2000 **Proceedings of the fourth international ACM conference on Assistive technologies**

Publisher: ACM Press

Full text available: pdf(451.21 KB)   Additional Information: full citation, references, citings, index terms

Keywords: blind, commentary annotation, nonvisual web access, structural annotation, transcoding system

12 Analysing internet software retrieval systems: modeling and performance comparison

José Merseguer, Javier Campos, Eduardo Mena

May 2003 **Wireless Networks**, Volume 9 Issue 3

Publisher: Kluwer Academic Publishers

Full text available: pdf(425.44 KB)   Additional Information: full citation, abstract, references, citings, index terms

Nowadays, there exist web sites that allow users to retrieve and install software in an easy way. The performance of these sites may be poor if they are used in wireless networks; the reason is the inadequate use of the net resources that they need. If these kinds of systems are designed using mobile agent technology the previous problem might be avoided. In this paper, we present a comparison between the performance of a software retrieval system especially designed to be used in a wireless net ...

Keywords: UML, internet, mobile agent technology, software performance engineering, stochastic Petri nets

13 Managing routing tables for URL routers in content distribution networks

Zornitza Genova Prodanoff, Kenneth J. Christensen

May 2004 **International Journal of Network Management**, Volume 14 Issue 3

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(337.00 KB)   Additional Information: full citation, abstract, references, index terms

Large-scale content distribution networks (CDNs) can be built using URL routers to redirect client HTTP requests to the nearest content source. URL routers employ very large routing tables. To improve the manageability of CDNs, we propose to use URL signatures to reduce the size of routing tables and aggressive hashing to speed-up routing look-ups.

14 Fine-grained interoperability through mirrors and contracts

Kathryn E. Gray, Robert Bruce Findler, Matthew Flatt

October 2005 **ACM SIGPLAN Notices , Proceedings of the 20th annual ACM SIGPLAN conference on Object oriented programming, systems, languages, and applications OOPSLA '05**, Volume 40 Issue 10

Publisher: ACM Press

Full text available: pdf(391.61 KB)   Additional Information: full citation, abstract, references, index terms

As a value flows across the boundary between interoperating languages, it must be checked and converted to fit the types and representations of the target language. For simple forms of data, the checks and coercions can be immediate; for higher order data, such as functions and objects, some must be delayed until the value is used in a particular way. Typically, these coercions and checks are implemented by an ad-hoc mixture of wrappers, reflection, and dynamic predicates. We observe that 1) the ...

Keywords: Java, contracts, interoperability, mirrors, scheme

15 Workshop on testing, analysis and verification of web services (TAV-WEB) papers: Testing web database applications

Yuetang Deng, Phyllis Frankl, Jiong Wang

September 2004 **ACM SIGSOFT Software Engineering Notes**, Volume 29 Issue 5

Publisher: ACM Press

Full text available: pdf(110.98 KB)   Additional Information: full citation, abstract, references

Commercial, scientific, and social activities are increasingly becoming dependent on Web database applications. New testing techniques that handle the unique features of these systems are needed. To that end, we have extended AGENDA, a tool set for testing relational database applications, to test web database applications. Application source code is analyzed to extract relevant information about the URLs and their parameters. This information is used to construct and simplify a graph in which n ...

Keywords: database, software testing, web application

16 Developing regions & peer-to-peer: Analysis of WWW traffic in Cambodia and Ghana

Bowei Du, Michael Demmer, Eric Brewer

May 2006 **Proceedings of the 15th international conference on World Wide Web WWW '06**

Publisher: ACM Press

Full text available: pdf(358.66 KB)   Additional Information: full citation, abstract, references, index terms

In this paper we present an analysis of HTTP traffic captured from Internet cafés and kiosks from two different developing countries -- Cambodia and Ghana. This paper has two main contributions. The first contribution is a analysis of the characteristics of the web trace, including the distribution and classification of the web objects requested by the users. We outline notable features of the data set which effect the performance of the web for users in developing regions. Using the trace ...

Keywords: Cambodia, Ghana, HTTP, WWW, caching, classification, delay tolerant networking, developing regions, dynamic content, hypertext transfer protocol, measurement, performance analysis, proxy, redundant transfers, trace, world wide web

17 Web and e-business application: Content management on server farm with layer-7 routing

Mon-Yen Luo, Chu-Sing Yang, Chun-Wei Tseng

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available: pdf(540.88 KB)   Additional Information: full citation, abstract, references, index terms

Service replication on a server farm is becoming increasingly widespread as the explosive growth of the Web is straining the architecture of many Internet sites. Layer-7 routing, routing packets based on requested content, has been recognized as a powerful approach to distribute workload among these server farms. However, little attention has been given to how to configure content-related knowledge into the layer-7 routing mechanisms. In addition, the used data structures for storing content-rel ...

18 Technical correspondence: Inverting back the inversion of control or, continuations versus page-centric programming

Christian Queinnec

February 2003 **ACM SIGPLAN Notices**, Volume 38 Issue 2

Publisher: ACM Press

Full text available: pdf(848.50 KB)   Additional Information: full citation, abstract, references

Our thesis is that programming web applications with continuations is superior to the current page-centric technology. A continuation is a program-level manageable value representing the rest of the computation of the program. "What to do next" is precisely

what has to be explicitly encoded in order to program non trivial web interactions. Continuations allow web applications to be written in direct style that is, as a single program that displays forms and reads form submission since continuati ...

19 The internet vs e-commerce servers: when will server performance matter?
D. Krishnamurthy, J. Rolia
November 1998 **Proceedings of the 1998 conference of the Centre for Advanced Studies on Collaborative research**
Publisher: IBM Press
Full text available: pdf(113.14 KB)   Additional Information: full citation, abstract, references, index terms

The cycle time of an Internet based online shopper includes time at an electronic commerce (e-commerce) server to gather information and purchase products, download time to transfer data over the Internet, and think time for interpreting the results of individual requests. Currently most home based shoppers are limited to 56.6K modems and have cycle times largely determined by download time. Mega-bit (Mb) modems will soon be commonplace and will cause a significant reduction in the download time ...

20 WebQuilt: A proxy-based approach to remote web usability testing
July 2001 **ACM Transactions on Information Systems (TOIS)**, Volume 19 Issue 3
Publisher: ACM Press
Full text available: pdf(2.89 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

WebQuilt is a web logging and visualization system that helps web design teams run usability tests (both local and remote) and analyze the collected data. Logging is done through a proxy, overcoming many of the problems with server-side and client-side logging. Captured usage traces can be aggregated and visualized in a zooming interface that shows the web pages people viewed. The visualization also shows the most common paths taken through the web site for a given task, as well as the optimal p ...

Keywords: Usability evalution, WebQuilt, log file analysis, web proxy, web visualization

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